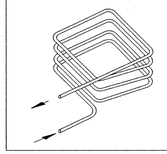
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7967	*	SANGAMON	28	19
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CITY OF SPRINGFIELD • 00-00415-00-WR

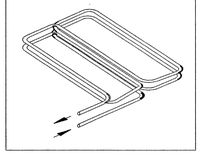
93363

LOOP DESIGNATION	NUMBER OF TURNS	READING @ HANDHOLE OR JUNCTION BOX				READING @ CONTROLLER			
		CALCULATED		METERED		CALCULATED		METERED	
		MH	W	MH	W	MH	W	MH	W
WLT	2-4-2	374	1.16			385	2.88		
WLB	2	191	0.85			203	2.57		
WLH	4	141	0.35			164	3.76		
WRH	4	138	0.29			161	3.69		
WLE	4	142	0.38			176	5.34		
WRE	4	139	0.31			173	5.27		
WLF	4	141	0.35			185	6.84		
WRF	4	138	0.29			182	6.78		
FRL	4	148	0.53			171	3.94		
FLL	4	146	0.46			169	3.87		
FRF	4	149	0.55			172	3.95		
FLF	4	146	0.47			169	3.88		

DETECTOR LOOP



QUADRUPOLE LOOP



INSTALLING THE LOOP WIRE:
THE NEGATIVE LEAD SHALL BE CONNECTED TO THE BLACK CONDUCTOR OF A PAIR OF CONDUCTORS IN THE LEAD-IN CABLE AND THE POSITIVE LEAD SHALL BE CONNECTED TO THE COLOR-CODED CONDUCTOR OF THE CABLE PAIR.

DETECTOR LOOP WIRE INSTALLATION

DETECTOR NOTES:

1. THE DETECTOR LOOP SHALL BE CENTERED IN THE LANE IN WHICH IT IS SHOWN. ANY ADJUSTMENTS ARE TO BE MADE ONLY AT THE DIRECTION OF THE ENGINEER.
2. THE DETECTOR LOOPS SHALL CONSIST OF THE NUMBER OF TURNS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. ACCEPTANCE OF THE LOOPS AS METERED SHALL BE DETERMINED BY THE ENGINEER.
4. ALL DETECTOR WIRES SHALL BE MARKED WITH WATERPROOF LABELS USING THE WIRING IDENTIFICATION SHOWN ON THE PLANS. THE + AND - OF EACH LOOP MUST BE USED TO IDENTIFY CURRENT FLOW. ALWAYS CONNECT THE BLACK WIRE OF EACH PAIR TO THE NEGATIVE (-) LOOP WIRE.
5. ALL QUADRAPOLE LOOPS SHALL BE 2-4-2 DESIGN.
6. THE CONTRACTOR SHALL CONTACT DISTRICT 6 OPERATIONS FOR ASSISTANCE IN DETECTOR LOOP LAYOUT AT LEAST 48 HOURS BEFORE INSTALLING DETECTOR LOOPS (PH.* 217-782-7314)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL
DETECTOR LOOP DETAILS

•DGN-SPEC•
•DATE-TIME•
•REF01

D6 PROJECT: d651501 FILE: ts_sheets.m32